

# HYDROVACUUM EXCAVATION & WATER MAIN SERVICES



## CWW's Hydrovacuum Excavation covers significant territory\*:

- Hydrovacuum Excavation
- Water Main Break Repairs
- Water Main Swabbing

\*Please visit our website [www.cwwcanada.com](http://www.cwwcanada.com) for additional details.

## The Big Picture

Hydrovacuum Excavation is the safe and productive non-destructive excavation method. Unlike mechanical excavation procedures, potential damages are significantly reduced as water is the 'digging tool' – loosening the soil and avoiding the safety and financial risks associated with utility line strikes. CWW's state-of-the-art Hydrovacuum Excavators break apart the soil while a high airflow vacuum removes it. CWW's Hydrovacuum Excavators are also versatile – perfect for potholing, waterline repair, slot trenching, directional drilling, sign and pole installation, and residential excavation. While CWW's Hydrovacuum Excavators feature the latest technology – with a boom that operates a full 320 degrees to maximize productivity, a standard hot water heater ensures operation year-round while its single-cell stainless steel water tank provides long-lasting durability and resists freezing.

## Features/Benefits

- PD System
- Hibon 8702 tr-lobe 5150 CFM at maximum speed of 2,000 rpm
- Ultra-quiet inlet and outlet silencers acoustically matched to blower
- Direct drive OMSI transfer case
- Dual parallel cyclonic separators with 12" clean-out door
- Microstrainer final filter with 3" camlock drain

## Reduced Water Usage

- For a more precise digging process
- Increased productive hours – up to 7.5 hours per tank
- More debris capacity for filling debris tank with soil instead of water
- Dumping load often dry enough to backfill the hole

## EXPOSING UNDERGROUND UTILITIES

### Fear Not

Potentially striking underground utilities during construction demands prudent excavation techniques through the use of hand-controlled shovels or hydro excavation equipment designed for careful and cautious excavation. CWW deploys hydro vacuum technology to expose underground utilities by using pressurized water that liquefies the soil cover. Residue is then drawn into a vacuum debris hose and stored in a debris tank inside the Hydro Excavator.



## NON-DESTRUCTIVE EXPLORATORY EXCAVATION

### Undeterred. Undisturbed.

CWW's Hydro Excavation fleet serves a broad range of customers. For its residential customers, fence post holes can be expediently created in areas traditionally difficult to reach and access without disturbing the surrounding landscape. In addition, CWW's excavation units can be effectively and safely deployed when digging in close proximity to a building foundation, and can be used for the repair and (or) installation of a new weeping tile system. Yet another CWW residential hydro vacuum excavation application is the repair or replacement of residential sewer and waterlines with minimal site disturbance.

## FROZEN GROUND EXCAVATION

### An Early Thaw

CWW's Hydrovacuum Excavation fleet features a water boiling system that ensures all-season failsafe operation. In addition, CWW can undertake an excavation project in excess of 350' from the excavation unit, and thaw and flush frozen and (or) blocked sewer ducts.

## WATER SHUTOFF (STAND POST) VALVE REPAIR, AND ANODE INSTALLATION (CATHODIC PROTECTION)

### Stemming the Tide

When in the service of municipalities, CWW's hydro vacuum excavation units can undertake small excavations including the repair of stand posts and water valve chambers. Municipalities can also count on CWW hydro vacuum excavation units for emergency water main repairs where the compromising break is quickly exposed, and for the clean-up of flooded area. CWW also provides these services to its industrial and commercial (including heavy construction) customers.

## WATER MAIN BREAK REPAIRS

### We're All Over It

CWW is on call 24/7 in order to immediately and effectively restore water main service under any emergency. Within minutes CWW will identify and expose the break, and store solids and water from the resulting muddy conditions in CWW's assigned Hydrovacuum Excavator. Should there be utilities in the proximity of the compromised location, excavation can move forward without delay. In addition, consistent with its safety policies and procedures, CWW excavations operate according to its established safe work practices where easy-shore boxes are transported on site and when necessary installed quickly, ensuring the safe repair of the water main.

## WATER MAIN SWABBING

### Comin' Through

Water main swabbing is the forceful introduction of a large sponge through a pipe to remove debris such as stones and sand, before chlorine testing procedures begin prior to the ultimate activation of the water main. CWW's water main swabbing equipment comes complete with mounted pump units that provide exhaustive water main cleaning services for both new contractor-fitted installations and for existing water distribution systems managed by municipalities. The swabbing system is composed of a water tank, pump, and swab chamber. Connecting the system to the water main risers at each end of the main, water is drawn from a hydrant or water supply on site and pumped into the water main through the riser. A coned-nose cylindrical sponge is pushed into the swab chamber and propelled by the water pressure through the length of the water main. The process is complete when the swab vacates the water main along with the debris through the other riser. Typically, the process is repeated three to five times until the last sponge is clean, inspected, and approved. CWW can also manipulate valves in the waterlines to complete the swabbing of multiple water main sections from the same setup area.